Demonstrates Basic Use of Thinking Skills

6^{th} GRADE MAIN RANGEFINDER 2

Limited Structure

It is important that you show or explain how you solved the problems on this assessment. If you use a calculator, show how you set up the math.

1. A 15-person soccer team wants to order new uniforms. They received the following price list for the four pieces that make up a complete uniform: (All prices are for one item, including sales tax.)

Progressing Toward Grade Level

Uniform Price List	
Shirt	$12.50
Shorts	$ 7.25
Warm-Up Jacket	$21.00
Warm-Up Pants	$15.00

a. What is the total cost of purchasing complete uniforms for the entire team? *Show or explain how you found your answer.*

$12.50 × 15 = $62.50 $62.50 + 12.50 = $75.00 | 7.25 × 15 = $36.25 | 36.25 + 7.25 = 42.50 | $21.00 × 15 = 105.00, 210.00, $315.00 | 15.00 × 15 = 75.00, 150.00, $225.00 | 75.00 + 42.50 + 315.00 + 225.00 = $657.00 is the total cost

b. A local construction company is sponsoring the team by giving them $500 to help purchase the uniforms. How much will each player need to pay to get a complete uniform? *Show or explain how you found your* answer.

You add up all of the prices and it would come out to $55.75

They would have to pay 55.75 ea.

c. One player can earn $5.40 an hour by helping a local farmer. How many full hours will he have to work to pay for his share of the cost of a complete uniform? *Show or explain how you found your answer.*

5.40) 55.74 = 13.12 ; 174 − 162 = 12

He would have to work 13 hours and 12 minutes.

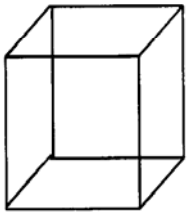
d. Last week $\frac{2}{3}$ of the uniforms were delivered. How many uniforms have not yet been delivered? *Show or explain how you found your answer.*

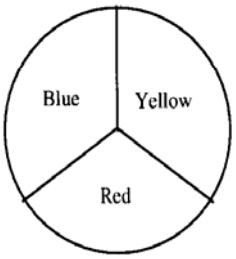
$\frac{3}{3} - \frac{2}{3} = 1/3$ of the uniforms.

Limited Evidence of Understanding

Read problems 2, 3, 4, and 5 on this and the next two pages.
Select three problems to answer. Answer ALL of the parts of the three problems you select to answer.
Cross out the one problem that you do not choose to answer.

2. Teresa and Jack were playing a board game. In this game the players have to roll a six-sided number cube and then spin a 3-colored spinner.





a. What is the probability that Teresa will roll an odd number on the number cube on her first roll? Write the probability as a fraction. *Show or explain how you found your answer.*

1 2 3 4 5 6 $3/6 = 1/2$

b. What is the probability that Jack will spin a blue or red on the spinner on his first spin? Write the probability as a fraction. *Show or explain how you found your answer.*

$3/3 - 1/3 = 2/3$ chance

Demonstrates Basic Use of Thinking Skills

c. Make a list of all possible outcomes if Teresa rolls the number cube and spins the spinner. What is the total number of outcomes? *Show or explain how you found your answer.*

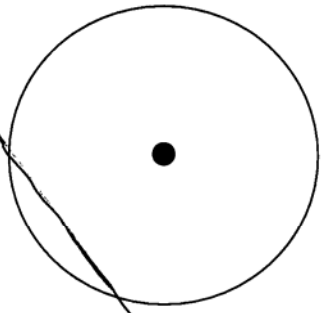
6 - 3 = 3 outcoms

Limited Process Development

3. Daryl was excited for summer vacation. The circle below represents Daryl's summer vacation. Daryl spent $\frac{1}{2}$ of his summer on his uncle's farm. He spent $\frac{1}{4}$ of the summer at camp. He spent $\frac{1}{8}$ of the summer playing baseball. He swims $\frac{1}{16}$ of the summer. The rest of the summer is spent with his friends.

a. Using the information above, complete the circle graph below to show how Daryl spends his summer. Label each section of the graph. *Show or explain how you found your answer.*

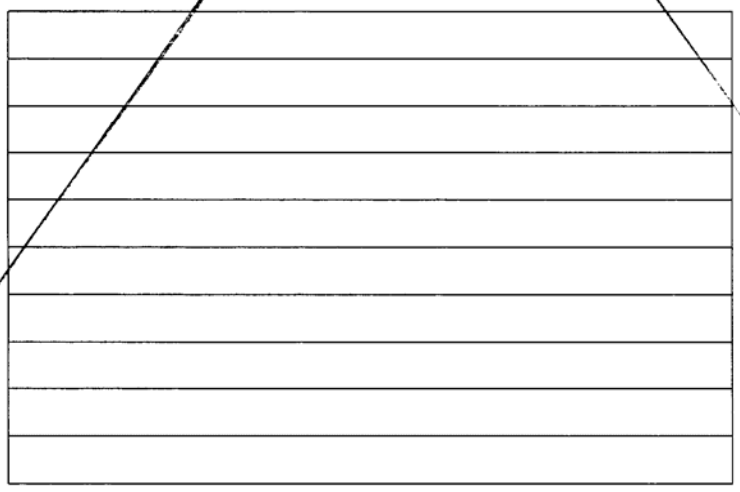
DARYL'S SUMMER VACATION



b. What fraction of his summer is spent playing with friends? *Show or explain how you found your answer.*

c. What fraction of time is spent swimming and playing with his friends? *Show or explain how you found your answer.*

d. Daryl's summer vacation is 64 days long. Draw and label a bar graph to represent the number of days spent doing each activity.



4. Joe is earning money to buy a bike. He saved $10.50 the first month, $21.00 more the second month, and $42.00 more the third month.

a. Complete the table below to find the amount he saved in the fourth month, if the pattern continues.

Month	Money Saved
1st	$10.50
2nd	$21.00
3rd	$42.00
4th	$8400

Limited Communication Skills

Surface Error

b. What was the **total** amount of money Joe had saved by the end of the fourth month? *Show or explain how you found your answer.*

$10.50 + 21.00 = $31.50
$31.50 + 42.00 = $73.50
$73.00 + $84.00 = $157.00
He saved $157.00.

c. The bike costs $340.00. How many months will Joe have to save in order to have enough money to buy the bike? *Show or explain how you found your answer.*

You would add 157 twice and 314 twice and that will give you $628.

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5. Freedom School has a track and field team. They hold the state record in many events.

1 foot	=	12 inches
1 yard	=	3 feet
1 mile	=	5280 feet

a. Sandy won the hundred-yard dash in 2003. How many feet are in the hundred-yard dash? *Show or explain how you found your answer.*

3 | 100 — 33 feet and 1 in.
9
10
9
1

b. Carlos can run a mile in eight minutes. How many feet does he run each minute? *Show or explain how you found your answer.*

8 | 5280 — 660 feet per minute

c. Jamie held the record in cross-country running. He trained by running 9 miles a week. How many yards did he run each week? *Show or explain how you found your answer.*

3 | 5280 — 1760 yards in a week.

Limited Understanding of Situation